

Succinic acid, 2,2-dichloroethyl 1-phenylpropyl ester

Inchi:	InChI=1S/C15H18Cl2O4/c1-2-12(11-6-4-3-5-7-11)21-15(19)9-8-14(18)20-10-13(16)17/h3
InchiKey:	KQUHSOMAGSNQBG-UHFFFAOYSA-N
Formula:	C15H18Cl2O4
SMILES:	CCC(OC(=O)CCC(=O)OCC(Cl)Cl)c1ccccc1
Mol. weight [g/mol]:	333.21

Physical Properties

Property code	Value	Unit	Source
gf	-308.75	kJ/mol	Joback Method
hf	-648.04	kJ/mol	Joback Method
hfus	35.57	kJ/mol	Joback Method
hvap	77.57	kJ/mol	Joback Method
log10ws	-4.30		Crippen Method
logp	3.808		Crippen Method
mvol	237.810	ml/mol	McGowan Method
pc	1901.92	kPa	Joback Method
rinpol	2139.00		NIST Webbook
rinpol	2139.00		NIST Webbook
tb	795.84	K	Joback Method
tc	1011.88	K	Joback Method
tf	459.39	K	Joback Method
vc	0.901	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	647.14	J/molxK	795.84	Joback Method
cpg	660.15	J/molxK	831.85	Joback Method
cpg	672.10	J/molxK	867.85	Joback Method
cpg	683.03	J/molxK	903.86	Joback Method
cpg	692.95	J/molxK	939.87	Joback Method
cpg	701.88	J/molxK	975.87	Joback Method
cpg	709.85	J/molxK	1011.88	Joback Method
dvisc	0.0010125	Paxs	459.39	Joback Method

dvisc	0.0005082	Paxs	515.47	Joback Method
dvisc	0.0002920	Paxs	571.54	Joback Method
dvisc	0.0001852	Paxs	627.62	Joback Method
dvisc	0.0001266	Paxs	683.69	Joback Method
dvisc	0.0000917	Paxs	739.77	Joback Method
dvisc	0.0000695	Paxs	795.84	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389926&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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